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Proof**CONTROL ID:** 1781969**SUBMISSION ROLE:** Regular DPS Abstract**DATE/TIME CREATED:** July 18, 2013, 6:29 PM**TITLE:** Observations of Comet 2P/Encke During the Fall 2013 Apparition**ABSTRACT BODY:**

Abstract (2,250 Maximum Characters): We will present preliminary results from our observational campaign of Comet 2P/Encke during its 2013 perihelion passage. At optical wavelengths Encke is an extremely dust poor comet that has in past perihelion passages emitted a gas jet in the form a sunward fan. We expect to characterize both the morphology and lightcurve of the comet. The low optical dust means that even near perihelion the nuclear signature can be obtained in lightcurve data taken with narrowband continuum filters which cut out the gas emission.

The campaign will consist of both narrowband and broadband imaging as well as infrared spectroscopy. Imaging will be obtained from 8 nights on the KPNO 2.1m between Sept. 7 and 14 UT. Additionally, the Murillo Family Observatory, a 0.5m telescope on the CSUSB campus which is equipped with both broadband filters and a narrowband Hale-Bopp set of filters will be used to observe the comet every clear night the moon allows between late August and early October to obtain extensive lightcurve data. These data will overlap both the Kitt Peak observations and the infrared spectroscopy which will be obtained with the SpeX instrument at the IRTF on four nights between September 26 UT and October 2 UT.

PRESENTATION TYPE: Poster**CURRENT * CATEGORY:** Comets | Asteroids: Physical Characterization**CURRENT :** None | None

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